

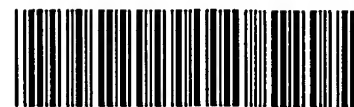
EFS

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: 10/589,305
Source: IFW0
Date Processed by STIC: 2/23/07

ENTERED



IFWO

RAW SEQUENCE LISTING

DATE: 02/23/2007

PATENT APPLICATION: US/10/589,305

TIME: 15:04:42

Input Set: N:\efs\02_23_07\10589305_efs\SEQUENCE-LISTING.txt

Output Set: N:\CRF4\02232007\J589305.raw

```

3 <110> APPLICANT: ARES TRADING S.A.
5 <120> TITLE OF INVENTION: Leucine rich repeat containing protein
7 <130> FILE REFERENCE: P036769WO
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/589,305
C--> 9 <141> CURRENT FILING DATE: 2006-08-14
9 <150> PRIOR APPLICATION NUMBER: GB 0403142.3
10 <151> PRIOR FILING DATE: 2004-02-12
12 <160> NUMBER OF SEQ ID NOS: 50
14 <170> SOFTWARE: SeqWin99, version 1.02
16 <210> SEQ ID NO: 1
17 <211> LENGTH: 496
18 <212> TYPE: DNA
19 <213> ORGANISM: Homo sapiens
21 <400> SEQUENCE: 1
22 atgaaaaaacc tctatttcag agtcattacc atagttatag gtctttatTTt tactggaata 60
23 atgacaaatg catcaagaaa aagcaatatt ttattcaatt ctgaatgcca atggaatgaa 120
24 tatattctga caaattgttc ttttaccgga aagtgtgata tacctgtgga catatcacag 180
25 acagcagcca ctgtggatgt aagtttcaat ttcttttagag ttctcttaca gtctcacacg 240
26 aaaaaagaag agtggaaaaat aaaacatctg gacctcagta acaatctcat atcaaaaata 300
27 accttaagcc cttttgcata tttacatgct ttggaagtgt taaacctcag caacaatgcc 360
28 atccactccc tctcattgga tctactcagt cctaagtcct catgggtgaa acgccacaga 420
29 agcagcttca gaaacagggt tccattgctg aaggtgctca ttcttcaaag aaataaaactc 480
30 agtgacactc ccaagg 496
32 <210> SEQ ID NO: 2
33 <211> LENGTH: 166
34 <212> TYPE: PRT
35 <213> ORGANISM: Homo sapiens
37 <400> SEQUENCE: 2
38 Met Lys Asn Leu Tyr Phe Arg Val Ile Thr Ile Val Ile Gly Leu Tyr
39 1 5 10 15
41 Phe Thr Gly Ile Met Thr Asn Ala Ser Arg Lys Ser Asn Ile Leu Phe
42 20 25 30
44 Asn Ser Glu Cys Gln Trp Asn Glu Tyr Ile Leu Thr Asn Cys Ser Phe
45 35 40 45
47 Thr Gly Lys Cys Asp Ile Pro Val Asp Ile Ser Gln Thr Ala Ala Thr
48 50 55 60
50 Val Asp Val Ser Phe Asn Phe Phe Arg Val Leu Leu Gln Ser His Thr
51 65 70 75 80
53 Lys Lys Glu Glu Trp Lys Ile Lys His Leu Asp Leu Ser Asn Asn Leu
54 85 90 95
56 Ile Ser Lys Ile Thr Leu Ser Pro Phe Ala Tyr Leu His Ala Leu Glu
57 100 105 110
59 Val Leu Asn Leu Ser Asn Asn Ala Ile His Ser Leu Ser Leu Asp Leu

```

RAW SEQUENCE LISTING

DATE: 02/23/2007

PATENT APPLICATION: US/10/589,305

TIME: 15:04:42

Input Set : N:\efs\02_23_07\10589305_efs\SEQUENCE-LISTING.txt

Output Set: N:\CRF4\02232007\J589305.raw

```

60          115          120          125
62 Leu Ser Pro Lys Ser Ser Trp Val Lys Arg His Arg Ser Ser Phe Arg
63          130          135          140
65 Asn Arg Phe Pro Leu Leu Lys Val Leu Ile Leu Gln Arg Asn Lys Leu
66 145          150          155          160
68 Ser Asp Thr Pro Lys Gly
69          165
71 <210> SEQ ID NO: 3
72 <211> LENGTH: 170
73 <212> TYPE: DNA
74 <213> ORGANISM: Homo sapiens
76 <400> SEQUENCE: 3
77 gactgtggaa actgaagtca ttgcagagtt tggatctgtc attcaatggg atattgcaaa 60
78 taggggtggtc tgattttcac aactgcctgc aactggagaa tctctgttta aagagcaaca 120
79 agatattcaa aattcccca caagccttca aggacctcaa aaaattacag 170
81 <210> SEQ ID NO: 4
82 <211> LENGTH: 56
83 <212> TYPE: PRT
84 <213> ORGANISM: Homo sapiens
86 <400> SEQUENCE: 4
87 Leu Trp Lys Leu Lys Ser Leu Gln Ser Leu Asp Leu Ser Phe Asn Gly
88 1          5          10          15
90 Ile Leu Gln Ile Gly Trp Ser Asp Phe His Asn Cys Leu Gln Leu Glu
91          20          25          30
93 Asn Leu Cys Leu Lys Ser Asn Lys Ile Phe Lys Ile Pro Pro Gln Ala
94          35          40          45
96 Phe Lys Asp Leu Lys Lys Leu Gln
97          50          55
99 <210> SEQ ID NO: 5
100 <211> LENGTH: 190
101 <212> TYPE: DNA
102 <213> ORGANISM: Homo sapiens
104 <400> SEQUENCE: 5
105 gtcatagacc ttagcaacaa tgctctgatt accatcctac caatgatgat catagctcta 60
106 gaatttcccc atctagtggg tgacttggct gataataact ggcagtgtga tgatagtgtg 120
107 gcagtctttc aaaattttat ttctgaatcc tggaggaaaa agtggaatgt catttgcaac 180
108 aggtctatag 190
110 <210> SEQ ID NO: 6
111 <211> LENGTH: 64
112 <212> TYPE: PRT
113 <213> ORGANISM: Homo sapiens
115 <400> SEQUENCE: 6
116 Val Ile Asp Leu Ser Asn Asn Ala Leu Ile Thr Ile Leu Pro Met Met
117 1          5          10          15
119 Ile Ile Ala Leu Glu Phe Pro His Leu Val Val Asp Leu Ala Asp Asn
120          20          25          30
122 Asn Trp Gln Cys Asp Asp Ser Val Ala Val Phe Gln Asn Phe Ile Ser
123          35          40          45
125 Glu Ser Trp Arg Lys Lys Trp Asn Val Ile Cys Asn Arg Ser Ile Gly

```

RAW SEQUENCE LISTING

DATE: 02/23/2007

PATENT APPLICATION: US/10/589,305

TIME: 15:04:42

Input Set : N:\efs\02_23_07\10589305_efs\SEQUENCE-LISTING.txt

Output Set: N:\CRF4\02232007\J589305.raw

```

126      50      55      60
129 <210> SEQ ID NO: 7
130 <211> LENGTH: 1754
131 <212> TYPE: DNA
132 <213> ORGANISM: Homo sapiens
134 <400> SEQUENCE: 7
135 ggagtgagga ggccaaaggq ggcactcccc agagcaggat ttccagggaa acccgcttcc 50
136 ctcccattca tctgcatcgc atgaaaagcc tcataaggag caaagcagag aggccccagg 120
137 gaggaaggca cacgggcatt tctactctgg ggaagaaggc aaaggccggc tctggtctca 180
138 ggaagaagca gagacggctg ccaaggagtg ttagaagcac ccgcatgtg caggctgccg 240
139 gcaaaaaaga ggacgctccc caggacctgg ctctggcggg gtgcctgtca gtgttcatca 300
140 cattccttgt cgccttcagc ctgggggctt tcacaaggcc ttatgttgac agactgtggc 360
141 aaaaaaagtg ccagagcaaa agccctggcc tggacaacgc gtattcaaac gagggcttct 420
142 acgatgacat ggaagctgcg gggcacacac cacaccaga gaccatctg cgccaagtat 480
143 ttctctatct aagcctctac gagaaccaga cccctttctg ggtgacacag ccacaccac 540
144 acgccaccgt aattcctgat agaactctgg gaaggagcag aaaggatcct ggcagttcgc 600
145 agagcccagg acagtgcggg gacaacaccg gggcaggaag tggaaatgat ggtgcagtct 660
146 attccattct ccagagacat ccacatgccg gtaaccgtga actaatgtca gcagcgagg 720
147 accacatcca taggaatgat attctcggag aatggactta tgaaactgtg gccagggaag 780
148 agcctctcag tgcacattca gtgggcgtct cttctgtagc tggcacgtct cacgctgtct 840
149 ctggctcaag ccgttatgat tccaatgaat tagacccttc cctctccgga gaaataacag 900
150 cttccctctg taaaatgcta acacatgcag aagcacagag gactggagat agtaaggaaa 960
151 gagggggcac tgaacagtca ctttgggact cgcagatgga attttctaag gaaaggcaag 1020
152 tgagttcatc cattgatttg ctgagcatac agcagccaag gctgtccggg gcaagggctg 1080
153 aggaagcgct ttcagcccac tacagcgagg ttccatacgg tgacccaaga gacacaggcc 1140
154 catcagtcct tcctccaaga tgggacagtg gcttggatgt cactcctgct aacaaggaac 1200
155 cagtgcagaa atccactcct tctgacactt gctgtgagtt ggagagtgc tgtgactctg 1260
156 atgaggggtc tctgttcact ctgagctcca taagttcaga gagtgcagg agcaagactg 1320
157 aagaggcagt gcctgatgag gagtccctgc aggacgagag ctcaggggca agcaaggaca 1380
158 atgtgacggc tgtagacagt cttgaggaaa atgttacctt ccaaacaatt ccagggaaat 1440
159 gcaagaatca agaagatccc tttgaaaaac ctctcatttc tgctccagac tctggcatgt 1500
160 acaagactca tctggaaaat gcctctgaca ctgatagatc tgagggcctg tcaccctggc 1560
161 ccaggtcacc agggaatagt cccttagggg atgagtttcc gggcatgttc acttatgatt 1620
162 atgacacagc tcttcaatcc aaggcagcag aatggcattg ctcaactaga gacttagaat 1680
163 tttcaaatgt ggacgtttta cagcaaacac caccatgttc tgctgaagtt ccctcagatc 1740
164 ctgataaggc tgcc 1754
166 <210> SEQ ID NO: 8
167 <211> LENGTH: 584
168 <212> TYPE: PRT
169 <213> ORGANISM: Homo sapiens
171 <400> SEQUENCE: 8
172 Ser Glu Glu Ala Asn Gly Gly Thr Pro Gln Ser Arg Ile Ser Arg Glu
173 1 5 10 15
175 Thr Arg Leu Pro Pro Ile His Leu His Arg Met Lys Ser Leu Ile Arg
176 20 25 30
178 Ser Lys Ala Glu Arg Pro Gln Gly Gly Arg His Thr Gly Ile Ser Thr
179 35 40 45
181 Leu Gly Lys Lys Ala Lys Ala Gly Ser Gly Leu Arg Lys Lys Gln Arg
182 50 55 60

```

RAW SEQUENCE LISTING

DATE: 02/23/2007

PATENT APPLICATION: US/10/589,305

TIME: 15:04:42

Input Set : N:\efs\02_23_07\10589305_efs\SEQUENCE-LISTING.txt

Output Set: N:\CRF4\02232007\J589305.raw

```

184 Arg Leu Pro Arg Ser Val Arg Ser Thr Arg Asp Val Gln Ala Ala Gly
185 65 70 75 80
187 Lys Lys Glu Asp Ala Pro Gln Asp Leu Ala Leu Ala Val Cys Leu Ser
188 85 90 95
190 Val Phe Ile Thr Phe Leu Val Ala Phe Ser Leu Gly Ala Phe Thr Arg
191 100 105 110
193 Pro Tyr Val Asp Arg Leu Trp Gln Lys Lys Cys Gln Ser Lys Ser Pro
194 115 120 125
196 Gly Leu Asp Asn Ala Tyr Ser Asn Glu Gly Phe Tyr Asp Asp Met Glu
197 130 135 140
199 Ala Ala Gly His Thr Pro His Pro Glu Thr His Leu Arg Gln Val Phe
200 145 150 155 160
202 Pro His Leu Ser Leu Tyr Glu Asn Gln Thr Pro Phe Trp Val Thr Gln
203 165 170 175
205 Pro His Pro His Ala Thr Val Ile Pro Asp Arg Thr Leu Gly Arg Ser
206 180 185 190
208 Arg Lys Asp Pro Gly Ser Ser Gln Ser Pro Gly Gln Cys Gly Asp Asn
209 195 200 205
211 Thr Gly Ala Gly Ser Gly Asn Asp Gly Ala Val Tyr Ser Ile Leu Gln
212 210 215 220
214 Arg His Pro His Ala Gly Asn Arg Glu Leu Met Ser Ala Ala Gln Asp
215 225 230 235 240
217 His Ile His Arg Asn Asp Ile Leu Gly Glu Trp Thr Tyr Glu Thr Val
218 245 250 255
220 Ala Gln Glu Glu Pro Leu Ser Ala His Ser Val Gly Val Ser Ser Val
221 260 265 270
223 Ala Gly Thr Ser His Ala Val Ser Gly Ser Ser Arg Tyr Asp Ser Asn
224 275 280 285
226 Glu Leu Asp Pro Ser Leu Ser Gly Glu Ile Thr Ala Ser Leu Cys Lys
227 290 295 300
229 Met Leu Thr His Ala Glu Ala Gln Arg Thr Gly Asp Ser Lys Glu Arg
230 305 310 315 320
232 Gly Gly Thr Glu Gln Ser Leu Trp Asp Ser Gln Met Glu Phe Ser Lys
233 325 330 335
235 Glu Arg Gln Val Ser Ser Ser Ile Asp Leu Leu Ser Ile Gln Gln Pro
236 340 345 350
238 Arg Leu Ser Gly Ala Arg Ala Glu Glu Ala Leu Ser Ala His Tyr Ser
239 355 360 365
241 Glu Val Pro Tyr Gly Asp Pro Arg Asp Thr Gly Pro Ser Val Phe Pro
242 370 375 380
244 Pro Arg Trp Asp Ser Gly Leu Asp Val Thr Pro Ala Asn Lys Glu Pro
245 385 390 395 400
247 Val Gln Lys Ser Thr Pro Ser Asp Thr Cys Cys Glu Leu Glu Ser Asp
248 405 410 415
250 Cys Asp Ser Asp Glu Gly Ser Leu Phe Thr Leu Ser Ser Ile Ser Ser
251 420 425 430
253 Glu Ser Ala Arg Ser Lys Thr Glu Glu Ala Val Pro Asp Glu Glu Ser
254 435 440 445
256 Leu Gln Asp Glu Ser Ser Gly Ala Ser Lys Asp Asn Val Thr Ala Val

```

RAW SEQUENCE LISTING

DATE: 02/23/2007

PATENT APPLICATION: US/10/589,305

TIME: 15:04:42

Input Set : N:\efs\02_23_07\10589305_efs\SEQUENCE-LISTING.txt

Output Set: N:\CRF4\02232007\J589305.raw

```

257      450      455      460
259 Asp Ser Leu Glu Glu Asn Val Thr Phe Gln Thr Ile Pro Gly Lys Cys
260 465      470      475      480
262 Lys Asn Gln Glu Asp Pro Phe Glu Lys Pro Leu Ile Ser Ala Pro Asp
263      485      490      495
265 Ser Gly Met Tyr Lys Thr His Leu Glu Asn Ala Ser Asp Thr Asp Arg
266      500      505      510
268 Ser Glu Gly Leu Ser Pro Trp Pro Arg Ser Pro Gly Asn Ser Pro Leu
269      515      520      525
271 Gly Asp Glu Phe Pro Gly Met Phe Thr Tyr Asp Tyr Asp Thr Ala Leu
272      530      535      540
274 Gln Ser Lys Ala Ala Glu Trp His Cys Ser Leu Arg Asp Leu Glu Phe
275 545      550      555      560
277 Ser Asn Val Asp Val Leu Gln Gln Thr Pro Pro Cys Ser Ala Glu Val
278      565      570      575
280 Pro Ser Asp Pro Asp Lys Ala Ala
281      580
283 <210> SEQ ID NO: 9
284 <211> LENGTH: 2610
285 <212> TYPE: DNA
286 <213> ORGANISM: Homo sapiens
288 <400> SEQUENCE: 9
289 atgaaaaacc tctatttcag agtcattacc atagttatag gtctttattt tactggaata 60
290 atgacaaatg catcaagaaa aagcaatatt ttattcaatt ctgaatgcca atggaatgaa 120
291 tatattctga caaattgttc tttaccgga aagtgtgata tacctgtgga catatcacag 180
292 acagcagcca ctgtggatgt aagtttcaat ttcttttagag ttctcttaca gtctcacacg 240
293 aaaaaagaag agtggaataa aaaacatctg gacctcagta acaatctcat atcaaaaata 300
294 accttaagcc cttttgcata ttacatgct ttggaagtgt taaacctcag caacaatgcc 360
295 atccactccc tctcattgga tctactcagt cctaagtct catgggtgaa acgccacaga 420
296 agcagcttca gaaacagggt tccattgctg aagggtctca ttcttcaaag aaataaactc 480
297 agtgacactc ccaagggact gtggaaactg aagtcattgc agagtgtgga tctgtcattc 540
298 aatgggatag tgcaaatagg gtggtctgat ttccacaact gcctgcaact ggagaatctc 600
299 ttcttaaaga gcaacaagat attcaaaatt ccccaacaag ccttcaagga cctcaaaaaa 660
300 ttacaggtca tagaccttag caacaatgct ctgattacca tcctaccaat gatgacata 720
301 gctctagaat ttccccatct agtgggttgac ttggctgata ataactggca gtgtgatgat 780
302 agtgtggcag tctttcaaaa ttttatttct gaatcctgga ggaaaaagtg gaatgtcatt 840
303 tgcaacaggt ctataggagg tgaggaggcc aacgggggca ctccccagag caggatttcc 900
304 agggaaaccc gccttcctcc cattcatctg catcgcatga aaagcctcat aaggagcaaa 960
305 gcagagaggg cccaggaggg aaggcacacg ggcatttcta ctctggggaa gaaggcaaag 1020
306 gccggctctg gtctcaggaa gaagcagaga cggctgccaa ggagtgttag aagcaccgcg 1080
307 gatgtgcagg ctgccggcaa aaaagaggac gctcccagg acctggctct ggcggtgtgc 1140
308 ctgtcagtgt tcatcacatt cctgtcgcgc ttcagcctgg gggctttcac aaggccttat 1200
309 gttgacagac tgtggcaaaa aaagtgccag agcaaaagcc ctggcctgga caacgcgtat 1260
310 tcaaacgagg gcttctacga tgacatggaa gctgcggggc acacaccaca cccagagacc 1320
311 catctgcgcc aagtatttcc tcatctaagc ctctacgaga accagacccc tttctgggtg 1380
312 acacagccac acccacacgc caccgtaatt cctgatagaa ctctgggaag gagcagaaaag 1440
313 gatcctggca gttcgcagag cccaggacag tgcggggaca acaccggggc aggaagtgga 1500
314 aatgatggtg cagtctattc cattctccag agacatccac atgccggtaa ccgtgaacta 1560
315 atgtcagcag cgcaggacca catccatagg aatgatattc tcggagaatg gacttatgaa 1620

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/589,305

DATE: 02/23/2007

TIME: 15:04:43

Input Set : N:\efs\02_23_07\10589305_efs\SEQUENCE-LISTING.txt

Output Set: N:\CRF4\02232007\J589305.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date